



Commissioner: Douglas E. Bryan

Board: John H. Burriss, Chairman

William M. Hull, Jr., MD, Vice Chairman

Roger Leaks, Jr., Secretary

Promoting Health, Protecting the Environment

Richard E. Jabbour, DDS Cyndi C. Mosteller Brian K. Smith Rodney L. Grandy

Mr. Gabriel L. Magwood Southern Division NFEC P.O. Box 190010 2155 Eagle Drive North Charleston, South Carolina 29419-9010

Re:

Assessment Report dated October 9, 1996

Charleston Naval Base Building NS 719 (Site Identification # 17669)

Charleston County

Date:

December 6, 1996

Dear Mr. Magwood:

The author has completed technical review of the referenced document. As submitted, the report provides analytical results of environmental sampling conducted to determine if releases have occurred from operation of the referenced system. The data presented indicate low levels of polynuclear aromatic hydrocarbons (PAH) were identified in the tank pit. These results are below levels proposed in the Soil Corrective Action Plan (dated July 18, 1996) and appear to indicate that no additional endeavors for remedial actions (soils removal) and contamination characterization are warranted at the referenced site at this time. If in the future contamination is identified which is attributable to this site, additional assessments and/or remedial endeavors may be required, as appropriate.

Should you have any questions, please contact me at (803) 734-5328.

Sincerely

Paul L. Bristol, Hydrogeologist

Groundwater Assessment and Development Section

Bureau of Water

cc:

Trident District EQC





SOUTHERN DIVISION

NAVAL FACILITIES ENGINEERING COMMAND P.O. BOX 190010

2155 EAGLE DRIVE

NORTH CHARLESTON, S.C. 29419-9010

(12396 (0 121096 PM)

5090

Code 1849 9 Oct 1996

Mr. Paul Bristol
South Carolina Department of Health
and Environmental Control
Ground-Water Protection Division
2600 Bull Street
Columbia, SC 29201

FdgN\$ 719 # 17669

UST ASSESSMENT REPORT FOR: NS 765, NS 705, NS 708, NS 701, NS 719, NS 717 AND NS 718 CHARLESTON NAVAL COMPLEX, CHARLESTON, SC

Dear Mr. Bristol:

Enclosed are the Assessment Reports for the closure of underground storage tanks NS 765, NS 705, NS 708, NS 701, NS 719, NS 717 AND NS 718 located at the Charleston Naval Complex, Charleston, SC.

If you have any questions please contact me at 803-820-7307.

Sincerely,

GABRIEL L. MAGWOOD

Petroleum/UST

OCT ...

Groundwater Protection.

Division

South Carolina Department of Health and Environmental Control (S.C.D.H.E.C.) Underground Storage Tank (UST) Assessment Report

-	-	-
lata	Receive	~
Date	RECEIVE	41

State Use Only

Submit Completed Form to: UST Regulatory Section SCDHEC 2600 Bull Street Columbia, South Carolina 29201 Telephone (803) 734-5331

I OWNERSHIP OF UST(S)

Agency/Owner: Southern Division, Naval Facilities Engineering Command, Caretaker Site Office						
Mailing Addres	s:	P.O. Box 190010				
City: N. Char	leston	State:	SC	Zip Code:	29419-9010	
Area Code:	803	Telephone Number:	743-9985	Contact Person:	LCDR Paul Rose	

II SITE IDENTIFICATION AND LOCATION

Site I.D. #:	N/A Unregulated		
Facility Name:	Charleston Naval Base	Complex, NS 719	
Street Address:	171 Turnbull Ave.		
City:	North Charleston	County: Charleston	

III CLOSURE INFORMATION

Closure Started:	14 June 1996	Closure Completed: 17 June 1996		
N/A	Number of USTs Closed	d: 1 SPORTENVDETCHASN		
Consultant		UST Removal Contractor		

IV. CERTIFICATION (Read and Sign after completing entire submittal)

RECT
THE LEVET
OCT 1
Groundwater Protection Division
•

	V. UST INFORMATION	Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6
A.	Product	Fuel oil					
В.	Capacity	280					
C.	Age	> 20 yrs					
D.	Construction Material	Steel					
E.	Month/Year of Last Use	4/96					
F.	Depth (ft.) To Base of Tank	6' 6"					
G.	Spill Prevention Equipment Y/N	N					
H.	Overfill Prevention Equipment Y/N	N					
I.	Method of Closure Removed/Filled	R					
J.	Visible Corrosion or Pitting Y/N	N					
K.	Visible Holes Y/N	N					

L. Method of disposal for any USTs removed from the ground (attach disposal manifests).

UST NS 719 was removed, drained and cleaned. It was then cut up for recycling as scrap metal. See Attachment III.

M. Method of disposal for any liquid petroleum, sludges, or waste waters removed from the USTs (attach disposal manifests).

Residual waste oil was pumped into a 55 gallon drum and recycled.

N. If any corrosion, pitting, or holes were observed, describe the location and extent for each UST.

Tank appeared to be in good condition. No corrosion, holes, or pitting was found.

VI. PIPING INFORMATION

			-
A .	Construction Material	Copper & Steel	
В.	Distance from UST to Dispenser	N/A (See	ŀ
C.	Number of Dispensers	N/A (See	N
D.	Type of System P/S	s	
E.	Was Piping Removed from the Ground? Y/N	Y	_
F.	Visible Corrosion or Pitting Y/N	N	_
G.	Visible Holes Y/N	N	
H.	Age	> 20 Yrs	_

Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6
Copper & Steel				_	
N/A (See	Note 1)				_
N/A (See	Note 1)				
s	:				
Y					
N					
N					
> 20 Yrs					

Note 1: UST 719 provided heating oil for a residence.

I. If any corrosion, pitting, or holes were observed, describe the location and extent for each line.

No corrosion, pitting or holes were observed.

VII. BRIEF SITE DESCRIPTION AND HISTORY

NS 719 served as housing for naval personnel and their families. UST 719 provided heating oil for the residence.

VIII. SITE CONDITIONS

Yes No Unk

A .	Were any petroleum-stained or contaminated soils found in the UST excavation, soil borings, trenches, or monitoring wells?		
	If yes, indicate depth and location on the site map.	X	
В.	Were any petroleum odors detected in the excavation, soil borings, trenches, or monitoring wells?		
	If yes, indicate location on site map and describe the odor (strong, mild, etc.)	X	
C.	Was water present in the UST excavation, soil borings, or trenches? If yes, how far below land surface (indicate location and depth)?	x	
D .	Did contaminated soils remain stockpiled on site after closure? If yes, indicate the stockpile location on the site map.	X	
	Name of DHEC representative authorizing soil removal:	Λ	
E.	Was a petroleum sheen or free product detected on any excavation or boring waters?		
	If yes, indicate location and thickness.	x	

IX. SAMPLE INFORMATION

S.C.D.H.E.C. Lab Certification Number 10120

Sample #	Location	Sample Type (Soil/Water)	Depth*	Date/Time of Collection	Collected By	OVA#
SPORT 0079-3	East end of tank.	Soil	6' 6"	6/17/96 1249	W. Nesbit	None taken
SPORT 0079-4	West end of tank.	Soil	6' 6"		W. Nesbit	None taken
-						

^{* =} Depth Below the Surrounding Land Surface

X. SAMPLING METHODOLOGY

Provide a detailed description of the methods used to collect <u>and</u> store (preserve) the samples.

After the removal of UST 719 soil samples were taken. The soil samples were collected from the bottom of the excavation from native soils at a depth of 6' 6" below land surface as shown in Site Map Number 2. Sampling was performed in accordance with SC DHEC R.61-92 Part 280 and SC DHEC UST Assessment Guidelines.

The samples are identified as follows:

Detachment Charleston General Engineering Labs
UST719-1 = SPORT -0079-3

Sample jars were prepared by the testing laboratory. The grab method was utilized to fill the sample containers leaving as little head space as possible and immediately capped.

The samples were marked, logged, and immediately placed in sample coolers packed with ice to maintain an approximate temperature of 4° C. Tools were thoroughly cleaned and decontaminated with organic-free soap and water after each sample.

The samples remained in the custody of SPORTENVDETCHASN until they were transferred to General Engineering Laboratories for analysis as documented in the attached Chain-of-Custody Record.

XI. RECEPTORS

Yes No

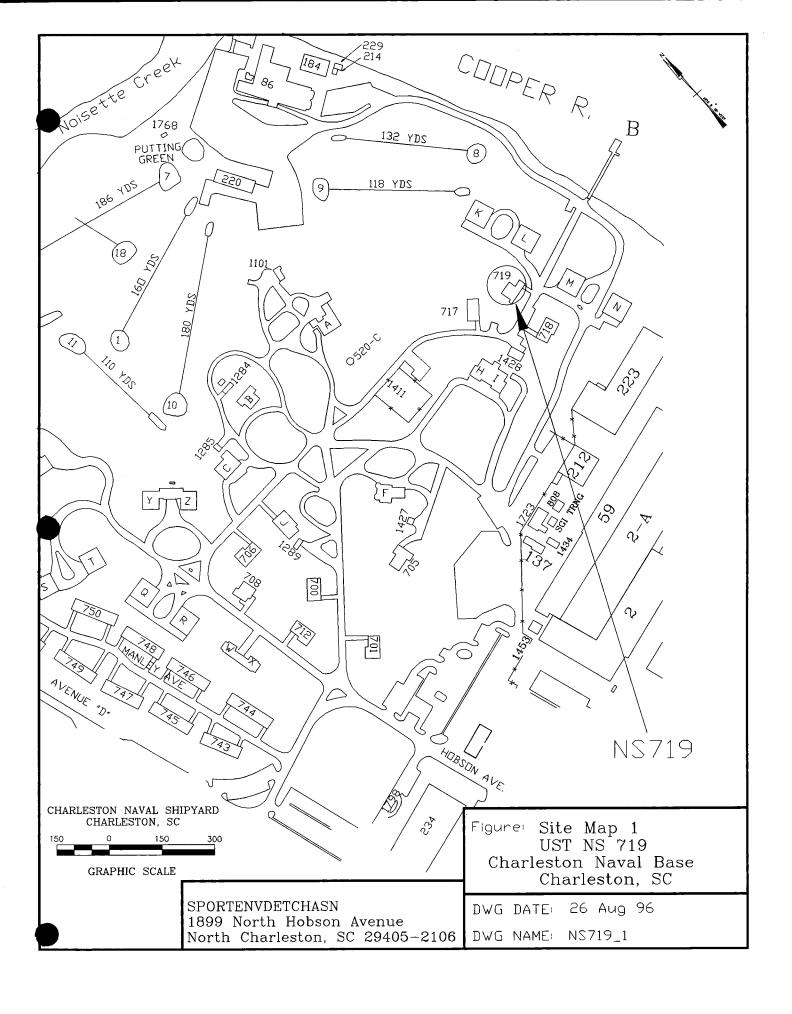
A.	Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system? [*Cooper River 353']	X*	
 	If yes, indicate type of receptor, distance, and direction on site map.		
В.	Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?		X
	If yes, indicate type of well, distance, and direction on site map.		
C.	Are there any underground structures (e.g., basements) located within 100 feet of the UST system		X
	If yes, indicate the type of structure, distance, and direction on site map.		
D.	Are there any underground utilities (e.g., telephone, electricity, gas, water, sewer, storm drain) located within 100 feet of the UST system that could potentially come in contact with the contamination? [*See Site Map 3]	X*	
	If yes, indicate the type of utility, distance, and direction on the site map.		
E.	Has contaminated soil been identified at a depth of less than 3 feet below land surface in an area that is not capped by asphalt or concrete?		
	If yes, indicate the area of contaminated soil on the site map.		X

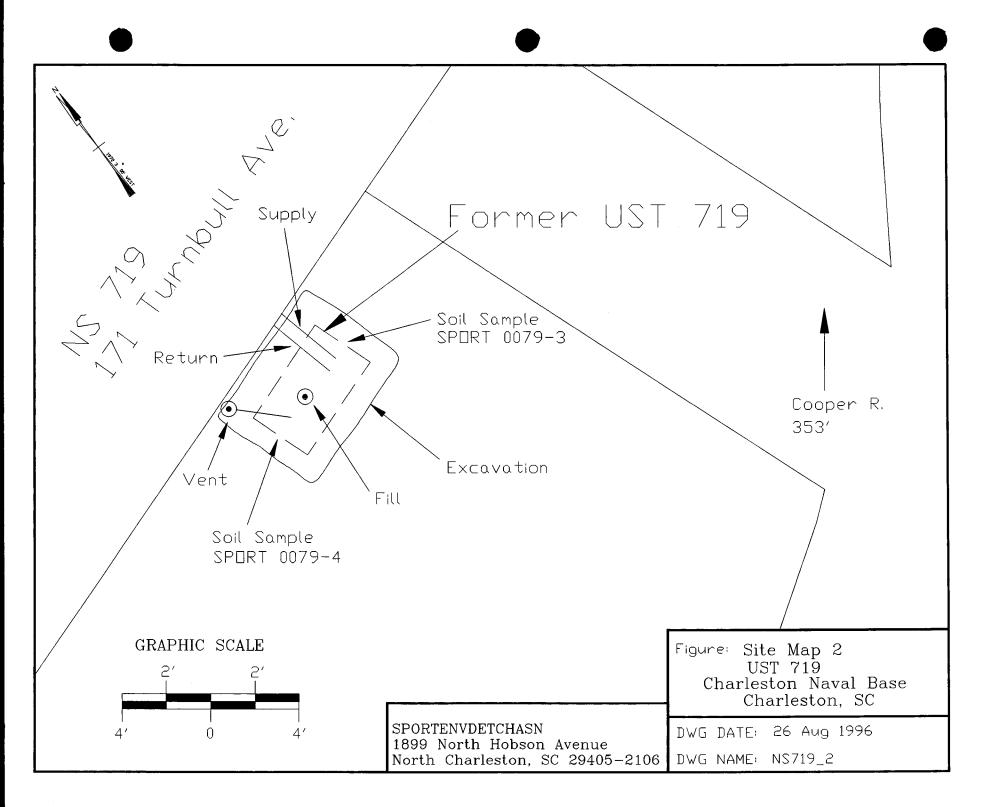
Attachment I

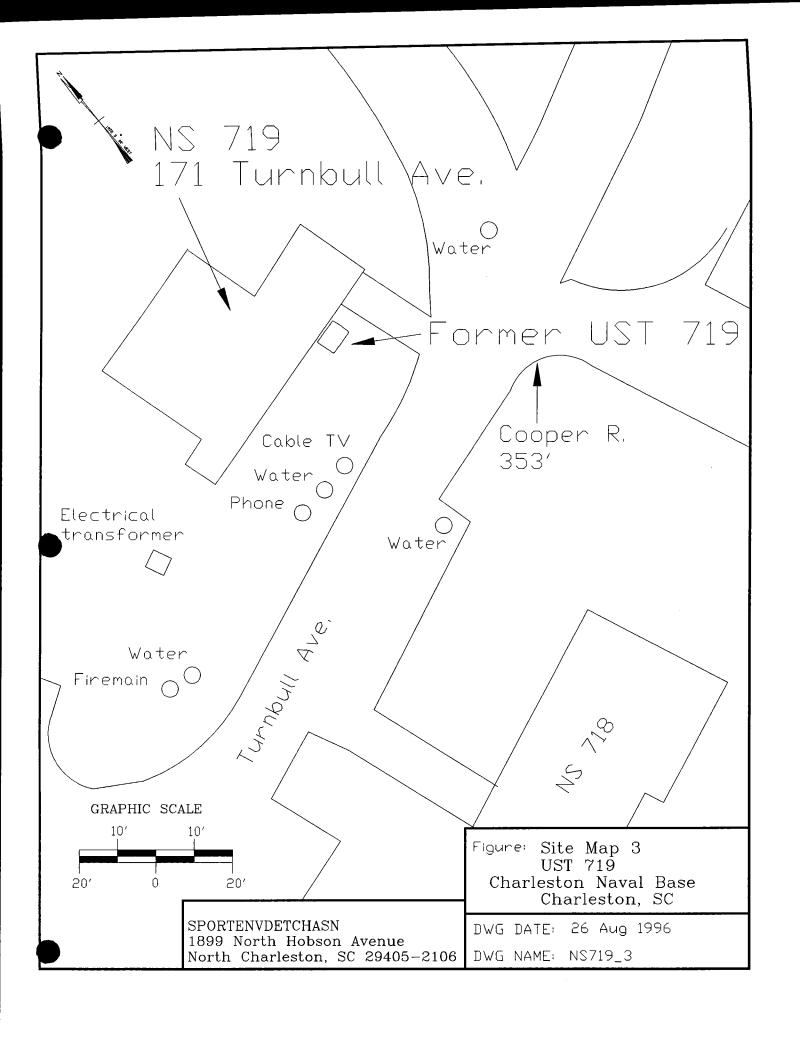
SITE MAP

You must supply a <u>scaled</u> site map. It should include all buildings, road names, utilities, tank and pump island locations, sample locations, extent of excavation, and any other pertinent information.

Site Maps 1, 2, and 3 No photographs available







Attachment II

ANALYTICAL RESULTS

You must submit the laboratory report and chain-of-custody form for the samples. These samples must be analyzed by a South Carolina certified laboratory.

Certified Analytical Results Chain-of-Custody



Meeting today's needs with a vision for tomorrow.

CERTIFICATE OF ANALYSIS

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: June 26, 1996

Page 1 of 3

Sample ID

: SPORT0079-3

Lab ID

: 9606326-03

Matrix

: Soil

Date Collected

: 06/12/96

06/18/96

Date Received	: 06/18/
Priority	: Routin
Collector	: Client
<u> </u>	

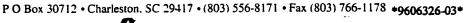
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst Date	Time	Batch	М
Yolatile Organics										
BTEX - 4 items		,								
Benzene	ប	0.00	1.00	2.00	ug/kg	1.0	THL 06/21/9	6 1103	86289	1
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0				
Toluene	U	0.00	1.00	2.00	ug/kg	1.0				
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0				
Naphthalene	ប	0.990	1.00	2.00	ug/kg	1.0				
Extractable Organics										
Polynuclear Aromatic H	lydrocarbons -	16 items								
Acenaphthene	U	0.00	164	330	ug/kg	1.0	JCB 06/25/9	6 2241	86390	2
Acenaphthylene	U	0.00	164	330	ug/kg	1.0				
Anthracene	U	0.00	164	330	ug/kg	1.0				
Benzo(a)anthracene	J	230	164	330	ug/kg	1.0				
Benzo(a)pyrene	U	0.00	164	330	ug/kg	1.0				
Benzo(b)fluoranthene	J	184	164	330	ug/kg	1.0				
Benzo(ghi)perylene	U	0.00	164	330	ug/kg	1.0				
Benzo(k)fluoranthene	U	0.00	164	330	ug/kg	1.0				
Chrysene	U	0.00	164	330	ug/kg	1.0				
Dibenzo(a,h)anthracene	U	0.00	164	330	ug/kg	1.0				
Fluoranthene		649	164	330	ug/kg	1.0				
Fluorene	U	0.00	164	330	ug/kg	1.0				
Indeno(1,2,3-c,d)pyrene	U	0.00	164	330	ug/kg	1.0				
Naphthalene	บ	0.00	164	330	ug/kg	1.0				
Phenanthrene		649	164	330	ug/kg	1.0				
Pyrene		581	164	330	ug/kg	1.0				

The following prep procedures were performed:

GC/MS Base/Neutral Compounds

GWL 06/25/96 1630 86390 3







Meeting today's needs with a vision for tomorrow.

CERTIFICATE OF ANALYSIS

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: June 26, 1996

Page 2 of 3

	Sample ID	: SPORT0079	3	
Surrogate Recovery	Test	Percent%	Acceptable Limits	
2-Fluorobiphenyl	M610	98.1	(30.0 - 115.)	
Nitrobenzene-d5	M610	82.7	(23.0 - 120.)	
p-Terphenyl-d14	M610	95.3	(37.3 - 128.)	
Bromofluorobenzene	BTEX-8260	86.5	(59.7 - 159.)	
Dibromofluoromethane	BTEX-8260	111.	(74.0 - 128.)	
Toluene-d8	BTEX-8260	95.3	(53.4 - 163.)	
Bromofluorobenzene	NAP-8260	86.5	(59.7 - 159.)	
Dibromofluoromethane	NAP-8260	111.	(74.0 - 128.)	
Toluene-d8	NAP-8260	95.3	(53.4 - 163.)	

M = Method	Method-Description	•
M 1	EPA 8260	•
M 2	EPA 8270	
M 3	EPA 3550	

The qualifiers in this report are defined as follows:

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicate that a quality control analyte recovery is outside of specified acceptance criteria.

GEL Laboratory C	ertifications	EPI Laboratory Certificati	ons
AL - 41040	AZ - AZ0514	AL - 41050	AZ - AZ0514
CA - 2089	CT - PH-0169	CA - I-1023/2056	CT - PH-0175

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: June 26, 1996

Page 3 of 3

	Sample ID	: SPORT0079-3	
GEL Laboratory Certifications		EPI Laboratory Certification	ons
DE - SC012 ME - SC012 NC - 233 RI - 135 TN - 02934 VA - 00151 VI - 999887790	FL - E87156/87294 MS - 10120 NY - 11501 SC - 10120 UT - E-251 WA - C223	FL - E87472/87458 NY - 11502 SC - 10582 UT - E-227 WA - C225 PA - 68-485	MS - 29417 RI - 138 TN - 02934 VA - 00111 NJ - 79002 WV - 235

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Analytical Report Specialist

9606326-03



Meeting today's needs with a vision for tomorrow.

CERTIFICATE OF ANALYSIS

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: June 26, 1996

Page 1 of 3

Sample ID

: SPORT0079-4

Lab ID

: 9606326-04

Matrix

: Soil

Date Collected

: 06/12/96

Date Received

: 06/18/96

Priority

: Routine

Collector

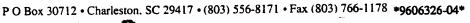
: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Anai	yst Date	Time	Batch	М
Volatile Organics				-							
BTEX - 4 items		•								-	
Benzene	U	0.00	1.00	2.00	ug/kg	1.0	JAC	06/19/96	1500	86165	1
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	ប	0.00	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
Naphthalene	U	0.00	1.00	2.00	ug/kg	1.0					
Extractable Organics											
Polynuclear Aromatic H	ydrocarbons -	· 16 items									
Acenaphthene	Ū	0.00	165	330	ug/kg	1.0	JCB	06/25/96	2313	86390	
Acenaphthylene	U	0.00	165	330	ug/kg	1.0					
Anthracene	U	0.00	165	330	ug/kg	1.0					
Benzo(a)anthracene	U	0.00	165	330	ug/kg	1.0					
Benzo(a)pyrene	บ	0.00	165	330	ug/kg	1.0					
Benzo(b)fluoranthene	U	0.00	165	330	ug/kg	1.0		•	_		
Benzo(ghi)perylene	U	0.00	165	330	ug/kg	1.0					
Benzo(k)fluoranthene	U	0.00	165	330	ug/ kg	1.0					
Chrysene	U	0.00	165	330	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	0.00	165	330	ug/kg	1.0					
Fluoranthene	U	0.00	165	330	ug/kg	1.0					
Fluorene	U	0.00	165	330	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	e Ü	0.00	165	330	ug/kg	1.0					
Naphthalene	U	0.00	165	330	ug/kg	1.0					
Phenanthrene	ប	0.00	165	330	ug/kg	1.0					
Рутепе	ប	0.00	165	330	ug/kg	1.0					

The following prep procedures were performed: GC/MS Base/Neutral Compounds

GWL 06/25/96 1630 86390 3







Meeting today's needs with a vision for tomorrow.

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Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: June 26, 1996

Page 2 of 3

	Sample ID	: SPORT0079	4	
Surrogate Recovery	Test	Percent%	Acceptable Limits	
2-Fluorobiphenyl	M610	95.0	(30.0 - 115.)	
2-Fluorobiphenyl	M610	95.0	(30.0 - 115.)	
Nitrobenzene-d5	M610	81.0	(23.0 - 120.)	
Nitrobenzene-d5	M610	81.0	(23.0 - 120.)	
p-Terphenyl-d14	M610	97.4	(37.3 - 128.)	
p-Terphenyl-d14	M610	97.4	(37.3 - 128.)	
Bromofluorobenzene	BTEX-8260	10 9 .	(59.7 - 159.)	
Dibromofluoromethane	BTEX-8260	100.	(74.0 - 128.)	
Toluene-d8	BTEX-8260	104.	(53.4 - 163.)	
Bromofluorobenzene	NAP-8260	109.	(59.7 - 159.)	
Dibromofluoromethane	NAP-8260	100.	(74.0 - 128.)	
Toluene-d8	NAP-8260	104.	(53.4 - 163.)	

M = Method	Method-Description	
M 1	EPA 8260	
M 2	EPA 8270	
M 3	EPA 3550	

Notes:

The qualifiers in this report are defined as follows:

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

indicate that a quality control analyte recovery is outside of specified acceptance criteria.

GEL Laboratory Certifi	cations	EPI Laboratory Certifications	
AL - 41040	AZ - AZ0514	AL - 41050	AZ - AZ0514



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Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: June 26, 1996

Page 3 of 3

	Sample ID	: SPORT0079-4		
GEL Laboratory Certifications		EPI Laboratory Certification	ons	
CA - 2089	CT - PH-0169	CA - I-1023/2056	CT - PH-0175	
DE - SC012	FL - E87156/87294	FL - E87472/87458	MS - 29417	
ME - SC012	MS - 10120	NY - 11502	RI - 138	
NC - 233	NY - 11501	SC - 10582	TN - 02934	
RI - 135	SC - 10120	UT - E-227	VA - 00111	
TN - 02934	UT - E-251	WA - C225	NJ - 79002	
VA - 00151	WA - C223	PA - 68-485	WV - 235	
WT _ 000887700				

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Analytical Report Specialist

NPWC 00196

CHAIN OF CUSTODY RECORD

General Engineering Laboratories, Inc. 2040 Savage Road Charleston, South Carolina 20414 P.O. Box 30712 Charleston, South Carolina 29417 (803) 556-8171

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SAMPLE II	D	DATE	TIME	WELL	Į.	# OF CONTAINERS	pH, conductivity	Toc/Doc	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS.	Pesticide	Herbicide	Tota	Acid	B.	PCB's	Cyanide	S S	Brex 7/05	7	Remarks
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Attachment III

Certificate of Disposal (tank)

UST Certificate of Disposal

CONTRACTOR

Supervisor of Shipbuilding, Conversion and Repair, usn, Portsmouth, VA
Environmental Detachment Charleston
1899 North Hobson Avenue
North Charleston 29405-2106

Telephone (803) 743-6482

TANK ID & LOCATION

UST 719; NS 719, Navbase Charleston, 171 Turnbull Ave., N. Charleston, SC

DISPOSAL LOCATION

Bldg. 1601 Tank Cleaning & Disposal Area Charleston Naval Complex

TYPE	OF	TA	NK

SIZE (GAL)

Fuel O	Ш
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280 gal.

CLEANING/DISPOSAL METHOD

The tank was cut open on both ends, cleaned with a steam cleaner, and disposed of as recyclable scrap metal.

DISPOSAL CERTIFICATION

I certify that the above tank has been properly cleaned and disposed of as recyclable scrap metal.